

Biography for William D. Ivancic

Mr. Ivancic has over twenty-eight years experience in network and system engineering for communication applications, communication networking research, state-of-the-art digital, analog and RF hardware design and testing. He currently is a senior research engineer at NASA's Glenn Research Center. His work areas include network centric technologies for space, aeronautics and terrestrial systems. He has lead research efforts to deploy commercial-off-the-shelf (COTS) technology into NASA missions. Of particular interest is large scale, secure deployment of mobile networks including mobile-ip and mobile router technology. Recent accomplishments include:

- 1st to demonstrate and deploy secure mobile networks in an operational government network, the US Coast Guard
- 1st to deploy Mobile-IP Mobile networking on a space-based asset, the Cisco router in Low Earth Orbit (CLEO)
- 1st to deploy Internet Protocol security (IPsec) and Internet Protocol version 6 on a space-base asset
- 1st to deploy delay/disruption network technology bundling protocol in space.
- 1st to demonstrate space-based large file transfers over multiple ground stations using DTN bundling. Experiments exercised proactive and reactive bundle fragmentation and International interoperability using standard Internet protocols.

Mr. Ivancic is also principle of Syzygy Engineering, a small consulting company specializing in communications systems and networking as well as advanced technology risk assessment. Mr. Ivancic is currently performing research and development on Identity-based security and key and policy management and distribution for tactical networks - particularly mobile networks.